See reverse side for

Interagency Rep 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1 REGISTRATION NO. 87-R-0002

CUSTOMER NO. 2

FORM APPROVED OMB NO. 0579-0036

## ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

UTAH STATE UNIVERSITY VP FOR RESEARCH/1450 OLD MAIN HILL LOGAN, UT 84322 - 1450 (435) 797-1180

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites)

See Attached Listing

A.  Animals Covered By The Animal Welfare Regulations	B. Number of animals upon which teaching, experiments, research, or teats were conducted involving accompanying pain or distress to the animals upon which teaching, research, or surgery but not yet used for such purposes.  C. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or involving no pain, distress, or use of pain-relieving drugs.  D. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, experiments, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, experiments, surgery, or tests were conducted involving anesthetic, analgesic, or tranquilizing drugs were used.  E. Number of animals upon which teaching, experiments, surgery or tests were conducted involving anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, experiments, surgery, or tests. (An experiments, surgery, or tests were conducted involving anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, experiments, surgery, or tests were conducted involving anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, experiments, surgery, or tests. (An explanation of the teaching, experiments, surgery, or tests were		F. TOTAL NO. OF ANIMALS (Cols. C + D + E)		
4. Dogs	0	0	0	0	. 0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	48		48
7. Hamsters	0	18	0	0	18
8. Rabbits	0	5	45	0	50
9. Non-Human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0.	0	0	0
12. Other Farm Animals	0	0	0	0	0
13. Other Animals					
Tenrec	6	0	0	0	0
Cottontail Rabb	it 77	59	0		59

1)	Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of	of jaine	sthetic,	analgesic,	and tranquilizing	drugs, prior	to, during
	Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of animals actual research, teaching, testing, surgery, or experimentation were followed by this research facility.	-111		1101/	- 2 a baat	1 1 2	
			111	MIIV	~ 3 ZUUI	السيال ا	}

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional official) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

<sup>2)</sup> Each principal investigator has considered alternatives to painful procedures.

<sup>3)</sup> This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and burnier of animals affected.

4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other

<sup>4)</sup> The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veteral aspects of animal care and use.

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 87-R-0002 CUSTOMER NO.

FORM APPROVED OMB NO. 0579-0036

# CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

UTAH STATE UNIVERSITY VP FOR RESEARCH/1450 OLD MAIN HILL LOGAN, UT  $84322\pm1450$  (435) 797-1180

REPORT OF ANIMALS USED BY	OR UNDER CONTROL O	F RESEARCH FACILITY	' (Attach additional sheets if nece		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
Raccoon	0	0	40	0	40
Skunk	0	0	10	0	10
Deer Mouse	0	0	43	0	43
Mule Deer	0	9	0	0	9
Elk	0	8	0	0	8
Cougar	0	0	17	0	17
ASSURANCE STATEMENTS				NOV 2 3 2001 USDA. AT 1-S. HEAC, AC	

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

(Chief Executive	I BY HEADQUARTERS RESEARCH FACILITY OFFICIAL ve Officer or Legally Responsible Institutional official) le above is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF CEO. OR INSTITUTIONAL OFFICIAL.	NAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		11/37/01

#### APHIS Form 7023 Site List

The following sites have been reported by the facility.

Registration Number:

87-R-0002

Customer Number:

2

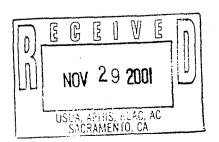
Facility:

**UTAH STATE UNIVERSITY** 

VP FOR RESEARCH/1450 OLD MAIN HILL

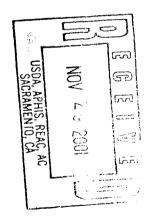
LOGAN, UT 84322 (435) 797-1180

UTAH STATE UNIVERSITY 1450 OLD MAIN HILL LOGAN, UT 84322



<b>被推出有</b> 定。		IACUC APPROVED EXCEPTIONS
IACUC#	INVESTIGATOR	EXCEPTION/DATE :
363R		Approval to house 12 Siberian hamsters in cages with a height of 5 inches instead of 5 ½ to 6 inches - Approved 6/98
363R		Approval to modify the cage and bedding change schedule from every week to monthly bedding change and cage change every three months for Tenrecs Approved 12/94
796R 860R		Approval to transport rabbits in cages 9x15x10 between Green Canyon, Wildlife Research Park in Millville, and the LARC on USU campus - Approved 10/99

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).



Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 87-R-0003

CUSTOMER NO. FORM APPROVED

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3

OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

**BRIGHAM YOUNG UNIVERSITY** A-261, ASB PROVO, UT 84602 (801) 378-6882

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites)

See Attached Listing

9th Floor Widtsoe Building

Veterinary Technology Kennel

	B. Number of	C. Number of	D. Number of animals upon	ssary or use APHIS FORM 7023A )  E. Number of animals upon which teaching,	F.
A.  Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs		29			29
5. Cats		31			31
6. Guinea Pigs	``				
7. Hamsters					
8. Rabbits	1	5	39		44
9. Non-Human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Black bears		35			35
Chinchilla		L			1
Ferrets		2			2

1)	Professionally acceptable standards governing the car	<ol> <li>treatment, and use of animals.</li> </ol>	, including appropriate use	of anesthetic,	analgęsic	, and tranquilizing drug	s, prior, to, during
	Professionally acceptable standards governing the car and following actual research, teaching, testing, surger	y, or experimentation were follow	wed by this research facility		NUV		

CE	RTIFICA	TION	BY	HEADQ	UARTE	RS RI	ESEA	RCH	FACI	LITY	OFFI	CIA
(0	Chief Ex	ecutiv	e Of	ficer or	Legally	Res	onsil	ble Ir	stitut	iona	offic	ial)
	Logitify	that the	aho	ve is this	correct	and co	molete	17.11	S C S	action	2143)	

IGNED 1/01

**RTERS** 

(AUG 91)

<sup>2)</sup> Each principal investigator has considered alternatives to painful procedures.

<sup>3)</sup> This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions as well as the species and number of animals affected.

<sup>4)</sup> The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO. 87-R-0003

CUSTOMER NO. 3

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA,

FORM APPROVED OMB NO. 0579-0036

## CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

include Zip Code) **BRIGHAM YOUNG UNIVERSITY** 

A-261, ASB PROVO, UT 84602 (801) 378-6882

REPORT OF ANIMALS USED BY	OR UNDER CONTROL O	F RESEARCH FACILITY	(Attach additional sheets if neces	ssary or use this form.)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, resuits, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
Cliff chipmunk		32			32
Least chipmunk		2			2
Valley Pocket Go	pher	2			2
Ord's Kangaroo Re	<u>t                                    </u>	55			55
Northern Grassho	per Mouse	11			11
Long-Tailed Pocke	et Mouse	3			3
Silky Pocket Mous	se	21			21
Great Basin Pocke	et Mouse	17			17
Desert Woodrat		16			16
House Mouse	2	10			10
Brush Mouse		30			30
Mouse UNK		22			22
Canyon Mouse		17			17
Deer Mouse		265			265
Pinyon Mouse		178			178
Western Marvest	Mouse	17			17
Desert Cottonta	1	3			3
ASSURANCE STATEMENTS					

	Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate			, and u	ariquilizirig	diags, prio	to, during
•	and following actual research, teaching, testing, surgery, or experimentation were followed by this research fai	cility.	11011				
	Each principal investigator has considered alternatives to painful procedures.		NOA -	5	2001		

	aspects of affiltal care and doc.	
	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL	
}	(Chief Executive Officer or Legally Responsible Institutional official)	
	certify that the above is true, correct, and complete (7 U.S.C. Section 2143)	
s		DATE SIGNED
l		10/31/01
レー		

APHIS FORM 2023A (AUG 91)

(Replaces VS FORM 18-23 (Oct 88), which is obsolete

<sup>2)</sup> Each principal investigator has considered alternatives to painful procedures.

<sup>3)</sup> This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the Initiality is admitted and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

<sup>4)</sup> The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 87-R-0004 CUSTOMER NO.

FORM APPROVED OMB NO. 0579-0036

## ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

 HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

L D S HOSPITAL 8TH AVENUE AND C STREET SALT LAKE CITY, UT 84143 (801) 321-1100

3. REPORTING FACILITY (List ail locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional

FACILITY LOCATIONS(sites)

See Attached Listing Medical Physics (Old St. Marks), \$25 N 300 W #420, Salt Lake City UT 84103

Advanced Interventional Tchn. Lab, 803 N 300 W., Salt Lake City UT 84103

Surgical Research Lab (Small An. Lab) LDS Hospital, 8th Av & C St, Salt Lake City UT 84143

Griggs Research Lab, LDS Hospital, 8th Avenue and C Street, Salt Lake City UT 84143

REPORT OF ANIMALS USED BY				ssary or use APHIS FORM 7023A )	F.
A.  Animals Covered By The Animal Welfare Regulations	B: Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, cruse of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	TOTAL NO. OF ANIMALS  (Cols. C + D + E)
4. Dogs			6		6
5. Cats					
6. Guinea Pigs					
7. Hamsters	:				
3. Rabbits					
Non-Human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals		<u> </u>			
		· · · · · · · · · · · · · · · · · · ·			
13. Other Animals				NOV - 2 2001	
				USOA, ACINIS, SEAC, AC SACRAMENTO, CA	

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL	
(Chief Executive Officer or Legally Responsible Institutional official)	
I cortifu that the above is true correct and complete 1711 S.C. Section 2112)	
	DATE SIGNED
	10/25/01
	HEADQUARTERS

See reverse side for

interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO. 87-R-0008

CUSTOMER NO.

FORM APPROVED OMB NO. 0579-0036

## ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

See Attached Listing

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

WEBER STATE UNIVERSITY 2505 HARRISON BLVD. OGDEN, UT 84408 (801) 626-6470 7931

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A) E. Number of animals upon which teaching, B. Number of C. Number of D. Number of animals upon experiments, research, surgery or tests were animals being animals upon which experiments. conducted involving accompanying pain or distress TOTAL NO. Animals Covered bred. which teaching, teaching, research, conditioned, or to the animals and for which the use of appropriate OF ANIMALS research, surgery, or tests were By The Animal anesthetic analgesic, or tranquilizing drugs would Welfare Regulations held for use in experiments, or conducted involving (Cols. C+ have adversely affected the procedures, results, or teaching, testing tests were accempanying pain or interpretation of the teaching, research, D + E) experiments, conducted distress to the animals involving no experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these research, or and for which appropriate surgery but not pain, distress, or anesthetic, analgesic, or animals and the reasons such drugs were not used yet used for such use of paintranquilizing drugs were purposes. relieving drugs. must be attached to this report) 4. Dogs 5. Cats 6. Guinea Pigs 7. Hamsters 8. Rabbits 9. Non-Human Primates 10. Sheep 11. Pigs 12. Other Farm Animals 13. Other Animals

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility. NOV

2) Each principal investigator has considered alternatives to painful procedures.

3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the rins facility is called in the standard and regulations that the very an experimental investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report, in addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFIC	SIAL
(Chief Executive Officer or Legally Responsible Institutional office	al)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNA

ASSURANCE STATEMENTS

DATE SIGNED

**APHIS** (AU

### APHIS Form 7023 Site List

The following sites have been reported by the facility.

Registration Number:

87-R-0008

Customer Number:

5

Facility:

WEBER STATE UNIVERSITY 2505 HARRISON BLVD.

OGDEN, UT 84408

(801) 626-6170 7931

Laris

WEBER STATE UNIVERSITY 3705 HARRISON BLVD. OGDEN, UT 84408



Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

REGISTRATION NO. 87-R-0013

CUSTOMER NO. 1013

FORM APPROVED OMB NO. 0579-0036

# ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

N P S PHARMACEUTICALS 420 CHIPETA WAY, SUITE 240 SALT LAKE CITY, UT 84108 (801) 583-4939

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research,	testing, teaching, or experimentation, or held for these purposes. Attach additional
3. REPORTING FACILITY (List all locations where a minute of the state	
sheets if necessary.) FACILITY LOCA	ATIONS(sites)
See Attached Listing	

A.  Animals Covered  By The Animal  Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	Esary or use APHIS FORM 7023A)  E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	.0	0
7. Hamsters		$\circ$	0	0	0
8. Rabbits	0	$\mathcal{O}$		<u> </u>	0_
9. Non-Human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	Ò	0	0	
13. Other Animals					
DATS	0	0	484	0	484
Mice	0		807	0	802

ŝυ	RANCE STATEMENTS	÷	++	-		di irina	
_	tractment and use of animals, including appropriate use of anesthetic.	ana	alge	si	c, and tranquilizing drugs, prior to,	Juring,	
()	Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic,	11	₹	t		i -	
,	and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.	11	0	1		1	
	and following actual rossurer, seems 5.		( ) I	,		i -	

(AUG 91)

3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

E SIGNED
29/01
JARTERS
12

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1.. REGISTRATION NO. 87-R-0018 CUSTOMER NO. 1629

FORM APPROVED OMB NO 0579-0036

## ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

FRONTIER BIOMEDICAL, INC. 1785 NORTH 730 WEST LOGAN, UT 84321

31.000		F	ACILITY LOCATIONS(sites)		
FRONTIER BIOMEDICAL, INC LOGAN, UT 84321	Σ.				
REPORT OF ANIMALS USED BY	OR UNDER CONTROL O	F RESEARCH FACILITY	' (Attach additional sheets if neces	ssary or use APHIS FORM 7023A )	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
4. Dogs					
5. Cats		·	<u> </u>		
6. Guinea Pigs					
7. Hamsters					
8. Rabbits		10	43		53
9. Non-Human Primates					
10. Sheep	25	6	. 93		99
11. Pigs			3		3
12. Other Farm Animals					
Goats		2			2
13. Other Animals					
!					

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION	BY HEADQUARTERS RESEARCH FACILITY OFFICIAL	
(Chief Executive	ve Officer or Legally Responsible Institutional official)	
I certify that the	e above is true, correct, and complete (7 U.S.C. Section 2143)	_
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		11/26/2001
T .	t .	1

APHIS FORM 7023 (AUG 91)

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ASSURANCE STATEMENTS

(Replaces VS FORM 18-23 (Oct 88), which is obsolete

PART 1 - HEADQUARTERS

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO. 87-R-0020 CUSTOMER NO. 1831

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

 UTAH ARTIFICIAL HEART INST.

UTAH ARTIFICIAL HEART INST 803 NORTH 300 WEST SALT LAKE CITY, UT 84103 (801) 332-1100

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites)

See Attached Listing

A.  Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	Esary or use APHIS FORM 7023A)  E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	Ø	Ø	0	Ø	Ø
5. Cats	Ø	Ø	$\emptyset$	Ø	Ø
6. Guinea Pigs	Ø	Ø	Ø	l Ø	Ø .
7. Hamsters	Ø	Ø	Ø	Ø	Ø
8. Rabbits	Ø	9		Ø	Ø
9. Non-Human Primates	Ø	Ø	Ø	Ø	Q
10. Sheep	Ø	0	jŸ	Ø	14
11. Pigs		Ø	6	0	6
(LOWS) 12. Other Farm Animals	Ø	Ø	31	0	31
13. Other Animals					
				11 U) U Well []	

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional official)  I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)		
	or Print)	DATE SIGNED
		2-0ct-01

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (Oct 88), which is obsolete

Prev. Annual Report

#### APHIS Form 7023 Site List

The following sites have been reported by the facility.

Registration Number:

87-R-0020

Customer Number:

1831

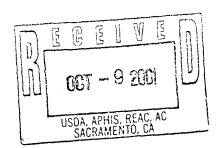
Facility:

UTAH ARTIFICIAL HEART INST.

803 NORTH 300 WEST SALT LAKE CITY, UT 84103

(801) 332-1100

UTAH ARTIFICIAL HEART INST. 9990 SOUTH 3100 EAST SANDY, UT 84092



# O Utah Artificial Heart Institute

October 2, 2001

To: United States Department of Agriculture

9580 Micron Ave. Suite J Sacramento, CA 95827

From:

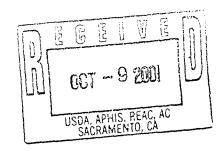
Utah Artificial Heart Institute 803 N 300 W Salt Lake City, UT 84103

Registration number: 87-R-0020

Re: October 2000 through September 2001 Annual Report

There were no animals used at the Utah Artificial Heart Institute between October 1999 to September 2000 pertinent to column E upon which teaching, experiments research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesia, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching research experiments, surgery, or tests. There were also no exceptions to the regulations and standards, specified and explained by the principal investigator and approved by the IACUC. There were also no experiments conducted at UAHI with "death as an endpoint". As of April 2001 the site at 9990 South 3100 East Sandy, UT 84092 was removed as a site for the Utah Artificial Heart Institute. This site will not be reported or counted on the report for next year.

Sincerely,



Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 87-R-0001 CUSTOMER NO.

FORM APPROVED OMB NO. 0579-0036

# ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

 HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

UNIVERSITY OF UTAH 615 ARAPEEN DR., SUITE 116 SALT LAKE CITY, UT 84108-1239

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites)

UNIVERSITY OF UTAH SALT LAKE CITY, UT 84108-1239

Α.	Number of animals being	C. Number of animals upon	Number of animals upon which experiments.	ssary or use APHIS FORM 7023A )  E. Number of animals upon which teaching, experiments, research, surgery or tests were	F.
Animals Govered By The Animal Welfare Regulations	bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO. OF ANIMALS (Cols. C+ D+E)
4. Dogs		11	169		180
5. Cats			75		75
6. Guinea Pigs			451	793	1244
7. Hamsters	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	95	134		229
8. Rabbits		132	979		1111
9. Non-Human Primates			35		35
10. Sheep			63	į	53
11. Pígs			77		77
12. Other Farm Animals					
Goats			27		27
13. Other Animals		- 22-1			
Gerbils			60		60
Ferrets			51		51
Wood Rats		101	9		191

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

	-	
(Chief Executive	BY HEADQUARTERS RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional official) above is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		10/22/2001

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (Oct 88), which is obsolete

Interagency Report Control No 0180-00A-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 87-R-0001 CUSTOMER NO.

FORM APPROVED UNIS NO. 3579-1036

# CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)
 HANGE CODE CONTROL

UNIVERSITY OF UTAH 615 ARAPEEN DR., SUITE 116 SALT LAKE CITY, UT 84108-1239

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use this form.)					
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F.  TOTAL NO OF ANIMAL  (Cols. C + D + E)
/oles		74			74
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SSURANCE STATEMENTS	<u> </u>	.			

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the (ACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional official) i certify that the above is true, correct, and complete (7 U.S.C. Section 2143)						
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				
		10/22/2001				

APHIS FORM 7023A (AUG 91) (Replaces VS FORM 18-23 (Oct 88), which is obsolete

#### APHIS Form 7023 Column E Explanation

This form is intended as an aid to completing the APHIS Form 7023 Column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number:

87-R-0001

2/3. Species (common name) & Number of animals used in this study:

Guinea Pigs (793)

4. Explain the procedure producing pain and/or distress.

The procedure performed is a skin sensitization test. The animals utilized in the test experience slight pain that is occasionally more than momentary. It consists of slight skin irritation.

 Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)

Pain relievers, in general, are anti-inflammatory and may interfere with optimization of the potential for detection of contact sensitization in this study design. Since inflammation is a component of the sensitization response being evaluated, introduction of agents that influence an inflammation response would most likely interfere with the evaluation of the potential of the test article to elicit a sensitization reponse.

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Agency: International Standards Organization, ISO 10993-1, parts 10 and 12.

CFR: